FIG.1

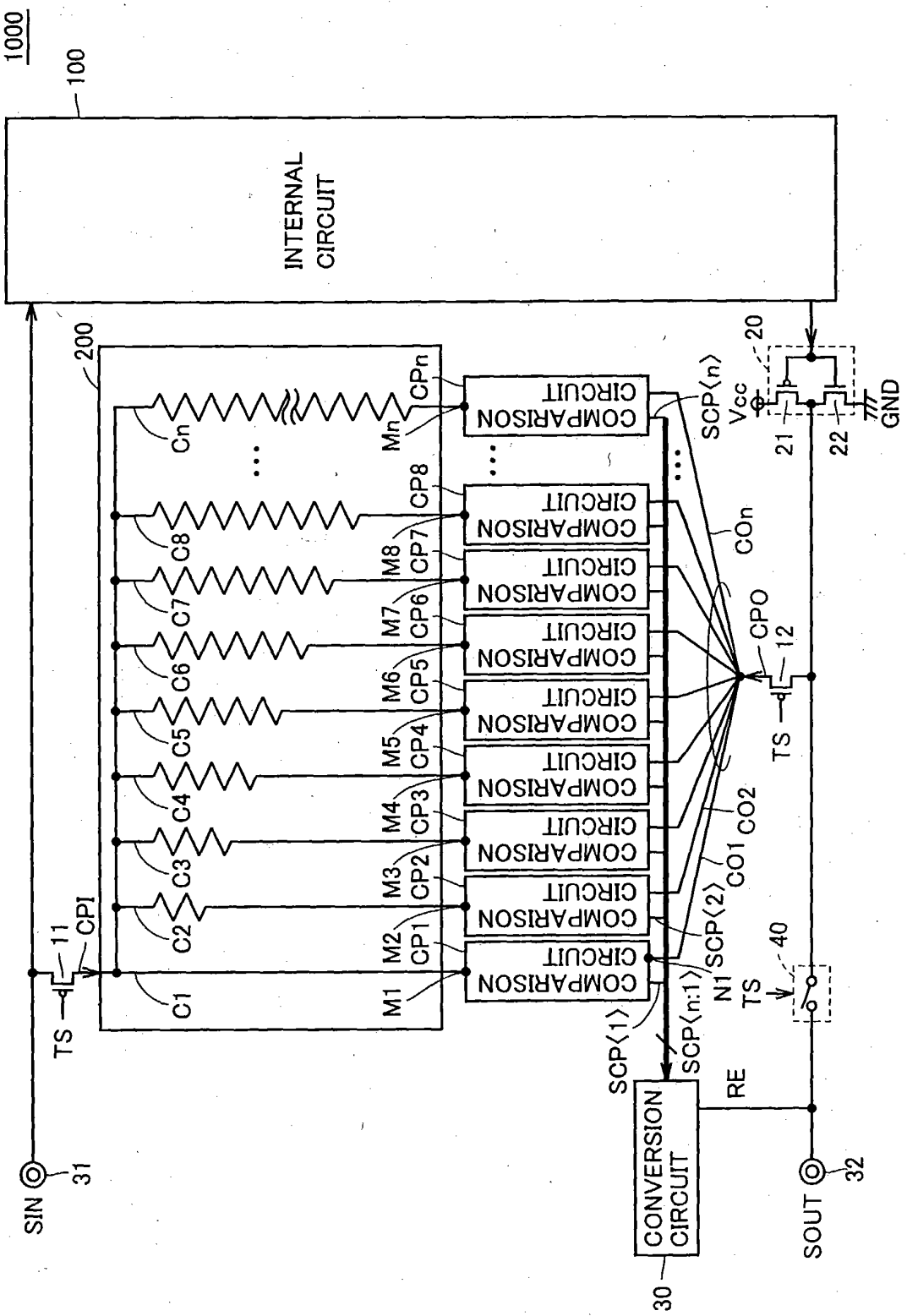

1000
100
INTERNAL CIRCUIT
200
C1
C2
C3
C4
C5
C6
C7
C8
Cn
M1
M2
M3
M4
M5
M6
M7
M8
Mn
CP1
CP2
CP3
CP4
CP5
CP6
CP7
CP8
CPn
CPI
CPO
11
12
TS
SIN
31
SOUT
32
COMPARISON CIRCUIT
SCP<1>
SCP<2>
SCP<n>
SCP<n:1>
CO1
CO2
COn
N1
20
21
22
Vcc
GND
40
RE
CONVERSION CIRCUIT
30

FIG.2A

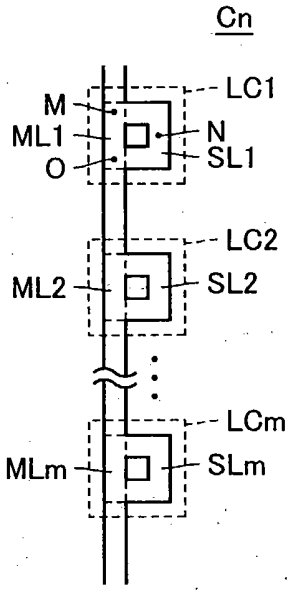


FIG.2B

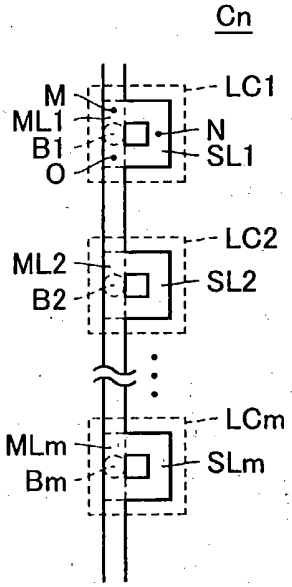


FIG.3

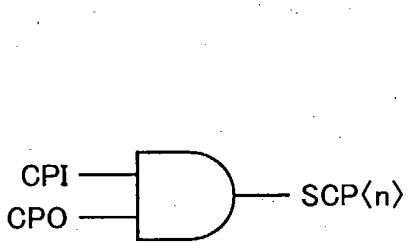


FIG.4

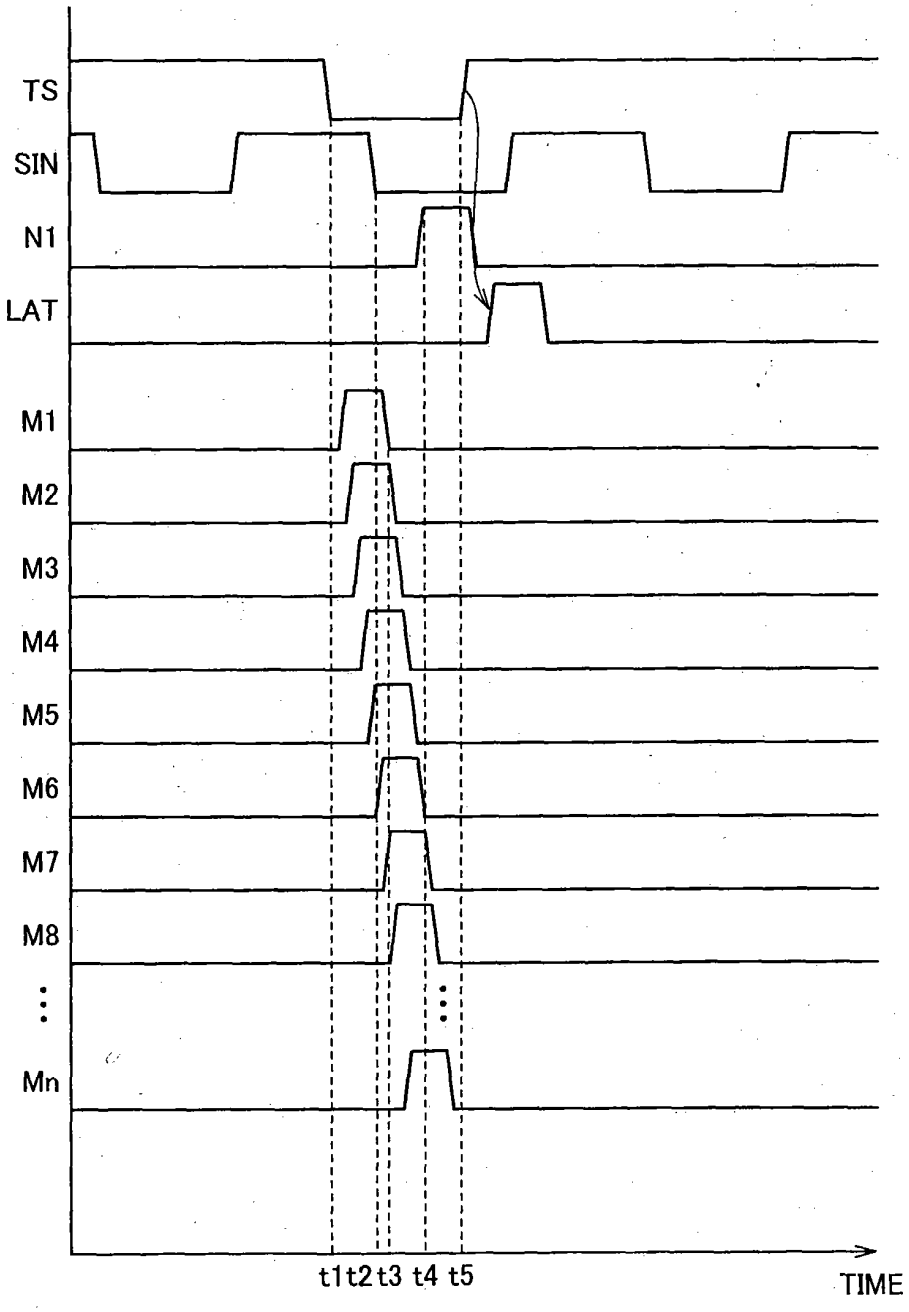


FIG.5

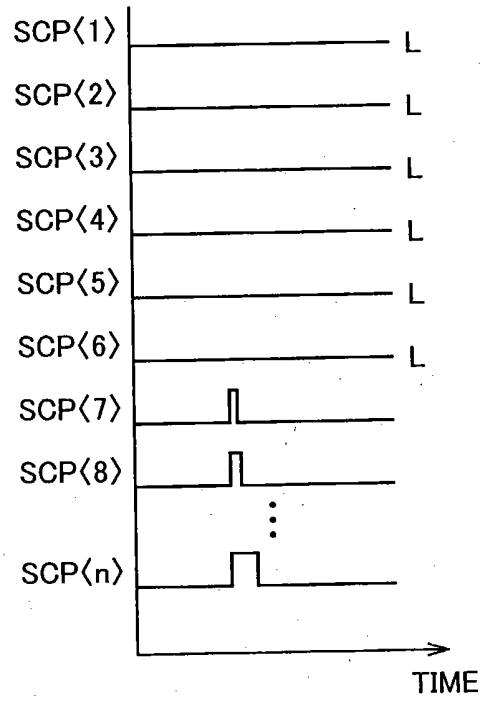


FIG.6

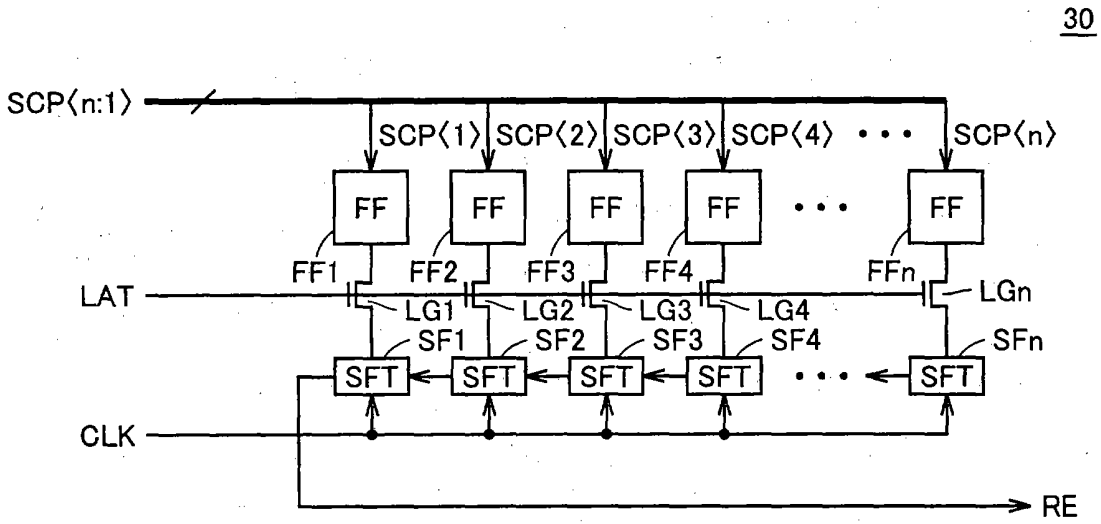

30
SCP〈n:1〉
SCP〈1〉
SCP〈2〉
SCP〈3〉
SCP〈4〉
SCP〈n〉
FF
FF1
FF2
FF3
FF4
FFn
LAT
LG1
LG2
LG3
LG4
LGn
SF1
SF2
SF3
SF4
SFn
SFT
CLK
RE

FIG.7

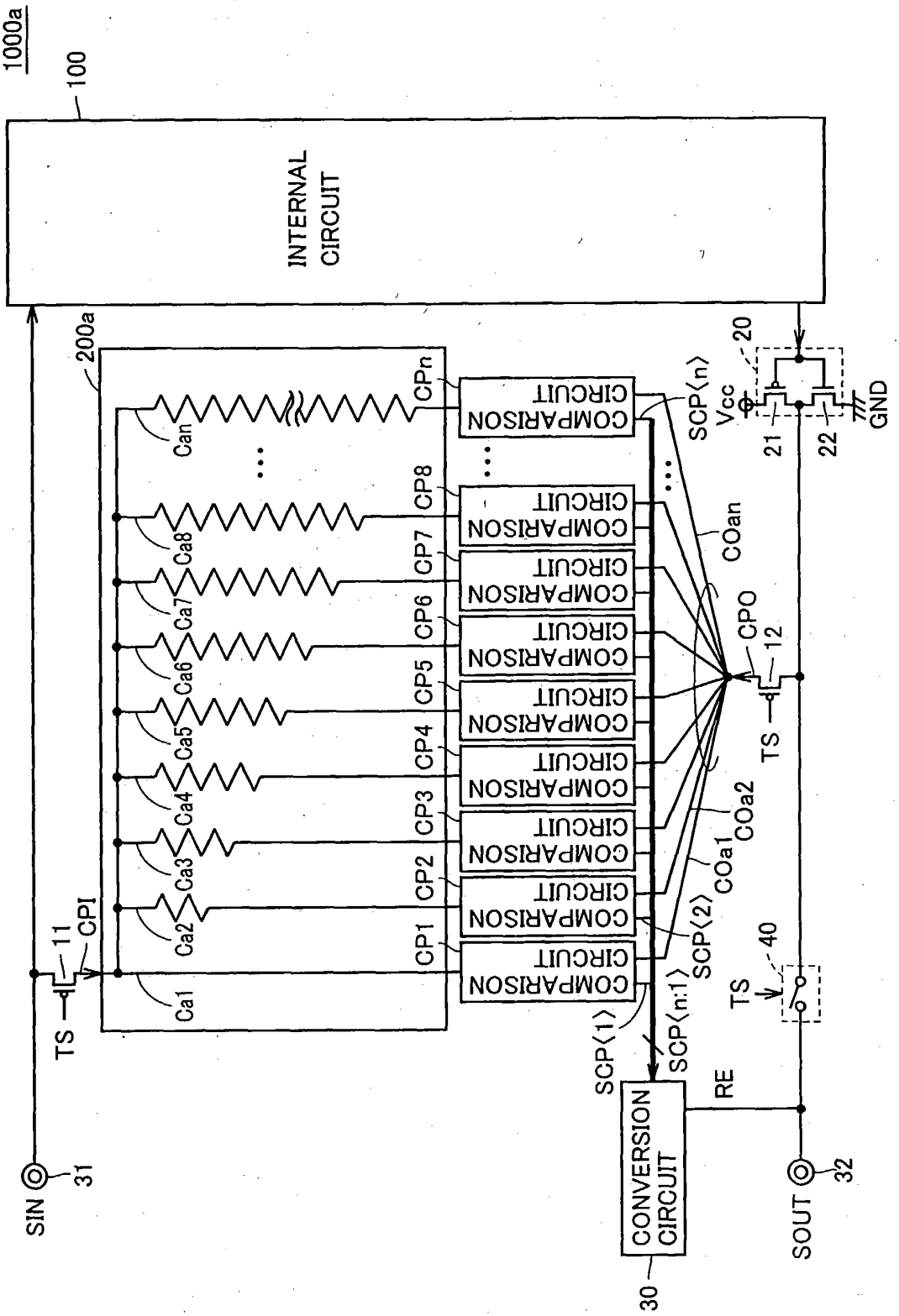

1000a
100
INTERNAL CIRCUIT
200a
Can
Ca8
Ca7
Ca6
Ca5
Ca4
Ca3
Ca2
Ca1
CPn
CP8
CP7
CP6
CP5
CP4
CP3
CP2
CP1
COMPARISON CIRCUIT
SCP〈n〉
SCP〈2〉
SCP〈1〉
SCP〈n:1〉
COan
COa2
COa1
CPO
CPI
11
12
20
21
22
40
Vcc
GND
TS
RE
SIN
SOUT
31
32
30
CONVERSION CIRCUIT

FIG.8A

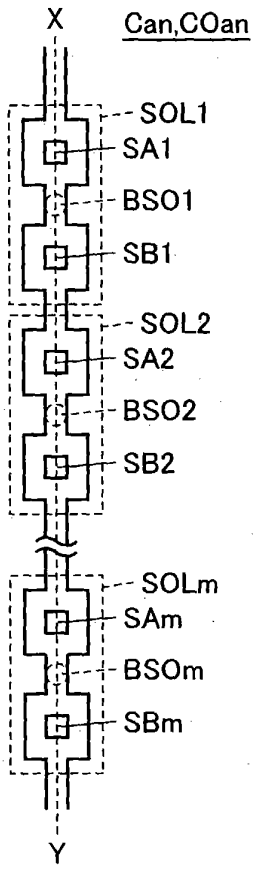

X
Can,COan
SOL1
SA1
BSO1
SB1
SOL2
SA2
BSO2
SB2
SOLm
SAm
BSOm
SBm
Y

FIG.8B

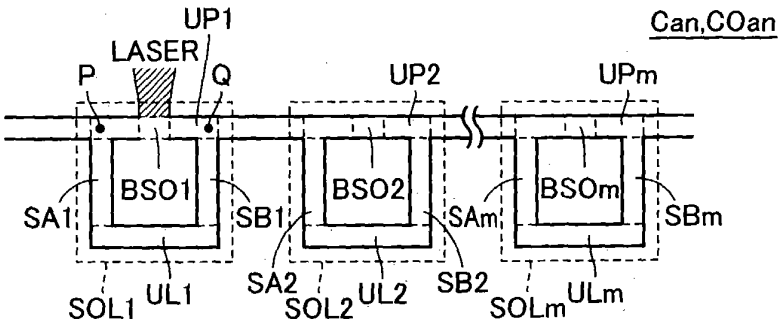

UP1
LASER
P
Q
UP2
UPm
Can,COan
BSO1
BSO2
BSOm
SA1
SB1
SAm
SBm
SOL1
UL1
SA2
SOL2
UL2
SB2
SOLm
ULm

FIG.9

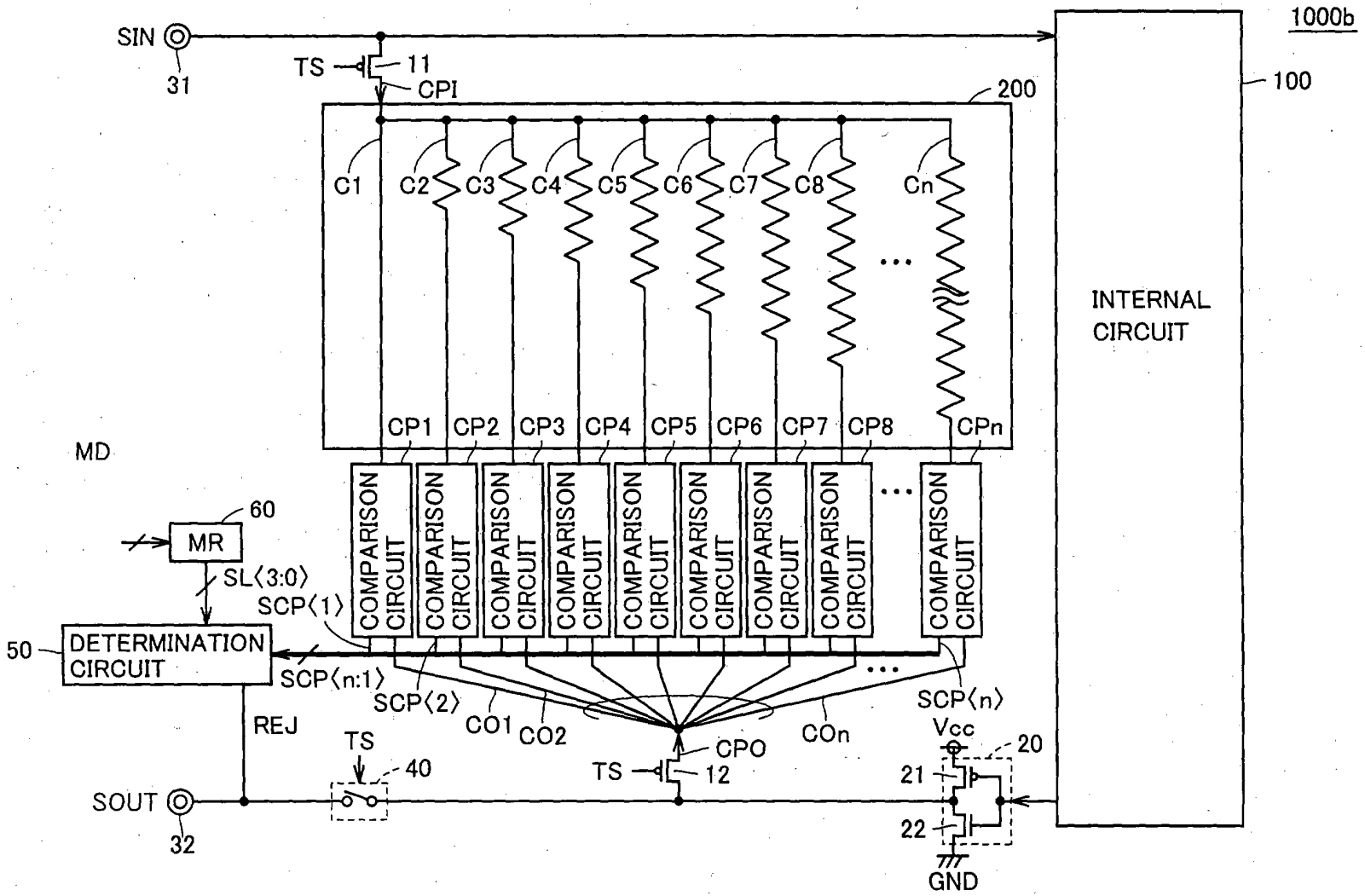
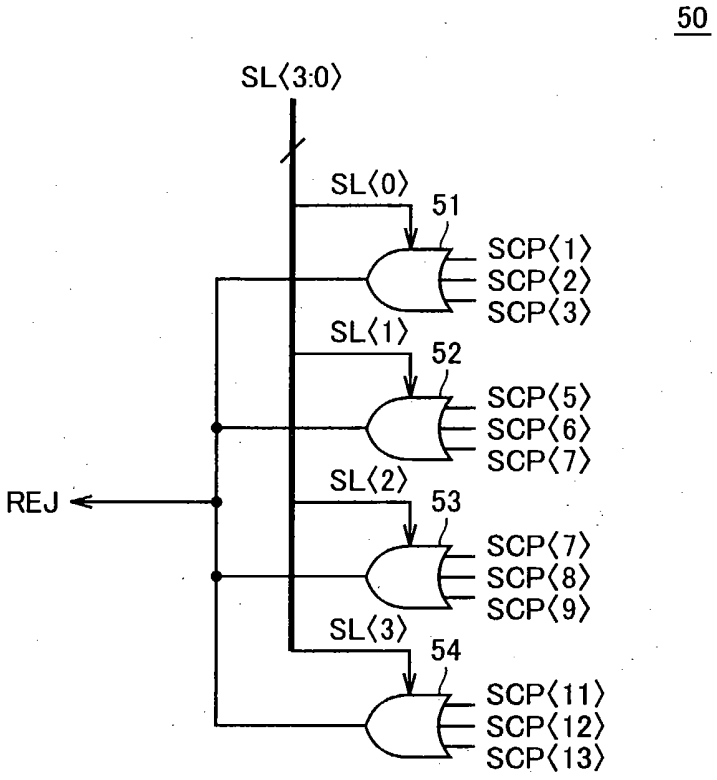

1000b
SIN
31
TS
11
CPI
200
100
C1
C2
C3
C4
C5
C6
C7
C8
Cn
INTERNAL CIRCUIT
CP1
CP2
CP3
CP4
CP5
CP6
CP7
CP8
CPn
MD
COMPARISON CIRCUIT
60
MR
SL⟨3:0⟩
SCP⟨1⟩
50
DETERMINATION CIRCUIT
SCP⟨n:1⟩
SCP⟨2⟩
SCP⟨n⟩
REJ
CO1
CO2
COn
Vcc
20
TS
40
CPO
TS
12
21
SOUT
32
22
GND

FIG.10


50
SL〈3:0〉
SL〈0〉
51
SCP〈1〉
SCP〈2〉
SCP〈3〉
SL〈1〉
52
SCP〈5〉
SCP〈6〉
SCP〈7〉
REJ
SL〈2〉
53
SCP〈7〉
SCP〈8〉
SCP〈9〉
SL〈3〉
54
SCP〈11〉
SCP〈12〉
SCP〈13〉